

APPLICANT(S): VOLOKH, Vladimir  
SERIAL NO.: 09/273,468  
FILED: March 22, 1999  
Page 2

## AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

### 1-10. (Cancelled)

**11. (Currently amended)** A rotary multi-tooth milling cutter with at least one tooth including a lateral cutting edge which rotates about a central cutter axis and cuts generally parallel thereto, the tooth further including a tooth face between the cutting edge and the central cutter axis, the tooth face comprising:

at least two first and second sections between the cutting edge and the central cutter axis, a said first section being nearest to the cutting edge and being convex and the second section being concave.

wherein said lateral cutting edge comprises a pointed cutting edge oriented to cut along a circular path centered at said central cutting axis.

**12. (previously presented)** The milling cutter as claimed in claim 11, wherein the length of the first section on the tooth face is 20% or less than the length of the tooth face between the cutting edge and central cutter axis.

**13. (previously presented)** The milling cutter as claimed in claim 11, wherein the first section blends tangentially into the second section.

**14. (previously presented)** The milling cutter as claimed in claim 11, further including a concave chip-breaking section located between the first and second sections of the tooth face.

**15. (previously presented)** The milling cutter as claimed in claim 11, wherein the first section is smaller in length than the second section.

**16. (Currently amended)** A rotary multi-tooth milling cutter with at least one tooth including a lateral cutting edge which rotates about a central cutter axis, the lateral cutting edge extending along the length of the central cutter axis and cuts generally parallel to the central axis, the tooth face comprising:

APPLICANT(S): VOLOKH, Vladimir  
SERIAL NO.: 09/273,468  
FILED: March 22, 1999  
Page 3

at least two first and second sections between the cutting edge and central cutter axis, a said first section being nearest to the cutting edge and being convex and the second section being concave.

wherein said lateral cutting edge comprises a pointed cutting edge oriented to cut along a circular path centered at said central cutting axis.

**17. (Previously presented)** The milling cutter as claimed in claim 16, wherein the length of the first section on the tooth face is 20% or less than the length of the tooth face between the cutting edge and central cutter axis.

**18. (Previously presented)** The milling cutter as claimed in claim 16, wherein the first section blends tangentially into the second section.

**19. (Previously presented)** The milling cutter as claimed in claim 16, further including a concave chip-breaking section located between the first and second sections of the tooth face.

**20. (Previously presented)** The milling cutter as claimed in claim 16, wherein the first section is smaller in length than the second section.

**21. (New)** The milling cutter as claimed in claim 11, wherein said second section is concave.

**22. (New)** The milling cutter as claimed in claim 16, wherein said second section is concave.

**23. (New)** The milling cutter as claimed in claim 11, wherein said cutting edge is oriented to have an off-radial release angle.

**24. (New)** The milling cutter as claimed in claim 16, wherein said cutting edge is oriented to have an off-radial release angle.